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SUBJECT:PROGRAMMING FUNDAMENTALS LAB

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**ANS1:** #include<iostream>

```
#include<conio.h>
```

```
#include<math.h>
```

```
using namespace std;
```

```
int main(){
```

```
    float a,b,c,s,area;
```

```
    cout<<"Enter three sides of triangle:";
```

```
    cin>>a>>b>>c;
```

```
    s = (a+b+c)/2;
```

```
    area = sqrt(s*(s-a)*(s-b)*(s-c));
```

```
    cout<<"Area : "<<area<<endl;
```

```
    return 0;
```

```
}
```

**Output:**

```
enter three sides of triangle:4
```

```
5.9
```

```
5.9
```

Area : 10.7516

process exited after 12.27 second with return 0

press any key to continue

**ANS 2:** #include<iostream>

using namespace std;

int main()

{

int sub1,sub2,sub3,sub4,sub5,percentage;

cout<<"Enter marks of five subjects : ";

cin>>sub1>>sub2>>sub3>>sub4>>sub5;

percentage=(sub1+sub2+sub3+sub4+sub5)/5;

if(percentage>=60)

cout<<"Ist division";

else if(percentage>=50)

cout<<"IInd division";

else if(percentage>=40)

cout<<"IIIrd division";

else

cout<<"Fail" ;

return 0;

**Output:**

SAMPLE RUN # 1

Enter marks of five subjects : 34 54 67 78 45

II division

SAMPLE RUN # 2

Enter marks of five subjects : 76 64 67 78 53

I division

SAMPLE RUN # 3

Enter marks of five subjects : 34 44 57 38 42

III division

SAMPLE RUN # 4

Enter marks of five subjects : 14 15 26 38 34

Fail

**ANS 3:** #include <iostream>

using namespace std;

int main()

{

int f = 5, i;

float y;

i= f\* 12;

cout<<"5 feet in inches ="<<i;

cout<<endl;

y =f/3.00;

cout<<"5 feet in yards ="<<y;

return 0;

```
}
```

## Output:

5 feet in inches =60

5 feet in yards =1.66667

## ANS 4: #include <iostream>

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int i,n;
```

```
int sum_of_series = 0;
```

```
printf("\n C Program to print sum of series 2 + 4 + 6 + 8 + 10 ");
```

```
scanf("%d",&n);
```

```
for ( i = 1 ; i <= 10 ; i++ )
```

```
{
```

```
    i = i+1;
```

```
    if(n!=i)
```

```
        printf(" %d +",i);
```

```
    else
```

```
        printf(" %d ",i);
```

```
    sum_of_series = sum_of_series + i;
```

```
}
```

```
printf(" = %d",sum_of_series);
```

```
// getch();  
}
```

## Output :

2 + 4 + 6 + 8

**ANS 5:** #include<iostream>

```
using namespace std;
```

```
int main()
```

```
{
```

```
    float Work_Hours, Hour_Rate, Gross_Pay, Tex, Net_Pay;
```

```
    cout<<"Total Worked Hours: ";    cin>> Work_Hours;
```

```
    cout<<"Hour Rate: "; cin>>Hour_Rate;
```

```
    Gross_Pay = Work_Hours * Hour_Rate;
```

```
    Tex = Gross_Pay * 0.10;
```

```
    Net_Pay = Gross_Pay - Tex;
```

```
    cout<<"Gross Pay: "<<Gross_Pay<<endl;
```

```
    cout<<"Tex 10%: "<<Tex<<endl;
```

```
    cout<<"Net Pay: "<<Net_Pay;
```

```
    return 0;
```

```
}
```